Cooperative Engagement Capability (CEC)

Description

The CEC system enables all CEC equipped, Anti-Air Warfare (AAW) weapon systems in a battle force to operate as a single, distributed AAW system. This is accomplished by providing timely sharing of fire control quality sensor data, correlated identification data, and AAW weapon system management status via a Data Distribution System (DDS). The data is processed independently by the Cooperative Engagement Processor (CEP) on-board each Cooperating Unit (CU) to construct a detailed track and status database in real time to provide required remote data to and from the local AAW weapon system elements (hardware and software modified for CEC). In this manner, each CU of a battle force can operate cooperatively with the other CUs, taking advantage of diverse locations and aspect angles, various AAW system capabilities, and degrees of availability by sharing sensor data, and coordinating engagements, fire control illuminators, and AAW missiles.

Operational Impact

CEC facilitates broader air coverage of the battle force against all airborne threats. The current flexible design allows for an Aerostat, and E-2 or E-3 Airborne Early Warning Aircraft . The expeditionary CEC will expand the common air situational picture and facilitate a broad-based, wide-area land and air defensive posture, supportive of a joint tactical commander.

Program Status

CEC is in Phase 0 of its acquisition life cycle, and funded within POM 00.

Procurement Profile:

	FY01	*FY02*
Quantity:	*0*	*0*

Developer/Manufacturer

LMCS Manufacturer:

Hardware — Raytheon E-Systems, St. Petersburg, FL

Software — John Hopkins University Applied Physics Laboratory, Laurel, MD

CEC Laboratory Manufacturer:

Hardware — NSWC, Crane, IN

Software — Solipsys Corporation, Laurel, MD